

Akulon[®] Ultraflow K—FKMV5 /C

PA6—MD25

25% Mineral Reinforced, Flame Retardant (halogen free), High Flow

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294-4
Molding shrinkage (normal)	0.8 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	6200 / —	MPa	ISO 527-1/-2
Stress at break	65 / —	MPa	ISO 527-1/-2
Strain at break	1.8 / —	%	ISO 527-1/-2
Charpy impact strength (+23°C)	25 / 20	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	25 / —	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / 2	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	2 / —	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	110 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	205 / *	°C	ISO 75-1/-2
Glow Wire Flammability Index GWFI	960 / —	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	1.5 / —	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960 / —	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	3 / —	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	725 / —	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.5 / —	mm	IEC 60695-2-13



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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES			
	DRY / COND		
Volume resistivity	>1E13 / –	Ohm*m	IEC 62631–3–1
Surface resistivity	– / >1E15	Ohm	IEC 62631–3–2
Comparative tracking index	* / 600	V	IEC 60112
OTHER PROPERTIES			
	DRY / COND		
Water absorption	6.2 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1380 / –	kg/m³	ISO 1183

